

**NUCOR STEEL
A DIVISION OF NUCOR CORPORATION
PLYMOUTH, UTAH**

**CLASS IIIb LANDFILL PERMIT APPLICATION
(Permit Modification)**

March 2003 Revision

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1.0 Introduction

Nucor Steel owns and operates a steel recycling facility in northern Utah near the town of Plymouth in Box Elder County. A location map is included in Attachment 1.

Construction of the facility began in the late 1970's, with operation beginning in 1980. A permit to operate a landfill was issued by the State of Utah Department of Health, Division of Environmental Health, dated April 15, 1980. In February 2000, Nucor submitted a revised Permit Application in response to the new Utah Division of Solid and Hazardous Waste (DSHW) regulations that specified requirements for various types of landfills within the state. The permit issued in response to this Revised Permit Application is contained in Attachment 2.

In addition to operation of the landfill for nonhazardous waste disposal, Nucor retains a vendor to provide dumpsters located around the plant. The vendor periodically empties the dumpsters and hauls the waste to a municipal landfill. Nucor intends to continue to utilize this service, which provides Nucor dual capabilities for waste disposal.

The landfill operated at the Nucor facility meets the definition of a Class IIIb landfill as described in the regulations. The landfill is a noncommercial landfill that receives only industrial nonhazardous solid waste generated at Nucor's facility.

Nucor is pursuing the delisting of their K061 waste stream. K061 waste is the air emission dust produced from the electric arc furnace (EAF) and collected in the canopy evacuation system baghouse (this material will be referred to as EAF dust). The delisted waste will be nonhazardous as defined by R315-304. Once the waste is delisted, Nucor is proposing to create two dedicated landfill cells in their currently permitted landfill for the disposal of this waste. These cells will be operated as a monofill and will only accept delisted, nonhazardous EAF dust. The monofill will be constructed in the currently permitted landfill area and will not include expansion of the permitted area.

This revised permit application is being submitted to include information relating to the proposed monofill. In general, this document is similar to the February 2000 Revised Permit Application (Nucor, 2000), with updates to address the EAF dust monofill.

Nucor has also included a modification to their existing landfill design. This modification includes the use of sloped sidewalls in landfill pits for worker safety.

1.1 General Information

The landfill will be operated by the following:

Nucor Steel
PO Box 100
West Cemetery Road
Plymouth, Utah 84330

The landfill is located on property owned by Nucor, the landfill applicant, within approximately 700 acres of scrap steel recycling operations. Nucor is the responsible party for landfill operations and future closure.

1.2 General Description

Landfill operations have historically been conducted in the southwestern corner of the property owned by Nucor. Nucor intends to continue operations in this area of the property for the duration of operations. A site plan of the portion of Nucor property where the landfill is located is included as Attachment 3. Approximately 6.9 acres, divided into two 3.45-acre cells for construction and operation purposes, will be designated as a monofill area for delisted EAF dust.

The landfill over the life of operation will encompass as much as 35 acres. The landfill area to be used from this date forward is generally the same area as used in historical landfill operations. Nucor believes that the historical landfill area can be better utilized for space reduction and that there are areas that can be again used for landfill material. The particular areas to be reused are areas in which large demolition materials, primarily large chunks of concrete, were deposited. The reuse of this space will minimize the area impacted by landfill operations.

1.3 Legal Description

The landfill is to be operated on property owned by Nucor Steel. Proof of ownership of the property is included as Attachment 4. Nucor will continue to operate the landfill in a portion of this property as shown in Attachment 3.

The property owned by Nucor is unzoned. Property surrounding the Nucor operations in all directions is also unzoned.

1.4 Types of Waste

The waste to be deposited in the landfill is waste generated exclusively on-site associated with steel making and auxiliary operations. This waste has historically been deposited in the landfill since the beginning of operations. The types of waste to be deposited on a regular and continual basis are as follows:

- a) personal use items, such as carry-out containers from the on-site cafeteria
- b) packaging materials for parts and supplies associated with operation of the plant
- c) building components
- d) refractory brick determined to be nonhazardous
- e) waste material from rail car cleaning
- f) scrap wood, i.e. dunnage, crates, pallets
- g) dirty rags, used gloves, worn or scraped non-steel or non-recyclable steel equipment/parts, filter media, etc.

Other waste that may periodically be placed in the landfill includes the following:

- a) mill scale if containing debris making it nonmarketable
- b) electric arc furnace slag in a form that is nonmarketable¹
- c) other nonhazardous and/or nonregulated waste
- d) remediated contaminated soil.

¹Electric Arc Furnace Slag is specifically exempt from regulation by R315-304-1(3)(c). This slag is present on-site in stockpiles, sold as outside sales by a contractor as a product, and used around the Nucor facility for road base and other purposes. Some slag that cannot be marketed may be placed in the landfill. Also, slag will continue to be used at the landfill to construct roadways and to aid in erosion control.

The dedicated EAF dust monofill will be used only for the disposal of EAF dust meeting the requirements of the delisting petition as approved by the UDEQ DSHW.

The types of waste that **will not** be deposited in the landfill are as follows:

- a) containers containing free liquids, except non-regulated such as partially empty pop bottles, etc.,
- b) media containing free liquids,
- c) regulated hazardous waste, and other regulated waste.
- d) EAF dust not meeting the requirements of the delisting petition.

The determination of whether a material is defined as hazardous or non-hazardous is determined by sampling, MSDS of the product, or by generator knowledge.

1.5 Noncommercial Landfill Demonstration

Commercial solid waste is defined in the regulations as “*all types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, excluding household waste and industrial waste.*”

Industrial solid waste is defined as “*any solid waste generated at a manufacturing or other industrial facility that is not a hazardous waste. Industrial solid waste includes waste from the following manufacturing processes and associated activities: electric power generation, fertilizer or agricultural chemicals, food and related products and by-products, inorganic chemicals, iron and steel manufacturing, leather and leather products, nonferrous metals manufacturing or foundries, ...*”

Material placed in the Nucor landfill is not defined as a commercial solid waste because industrial solid waste is excluded from the definition and Nucor's waste meets the definition of industrial waste. All waste to be deposited in the landfill is generated on-site. No waste is taken from outside entities.

2.0 Plan of Operation

2.1 Intended Schedule of Construction

The landfill is currently constructed and operating as allowed under the current Landfill Permit (Attachment 2). Nucor will continue to operate this landfill in the same general area. A new landfill will not be constructed. However, continual construction of active landfill pits or cells within the overall area will be part of routine operation. Small landfill pits will be constructed in the area for depositing waste. Once full, a new pit will be constructed within the overall landfill area. By constructing a series of small pits, the landfill can be better managed by minimizing the active area.

The 6.9-acre monofill will be constructed in two phases, or cells (3.45 acres each). Each cell will hold approximately 113,000 cubic yards (CY) of EAF dust. Construction of the Cell 1 monofill will begin approximately 1 month prior to the anticipated delisting petition approval. The second phase will be constructed based on need.

2.2 Waste Handling Procedures

As part of the initial orientation of new employees, and the periodic refresher training for existing employees, Nucor conducts training on the types of waste at its facility and the proper disposal methods for the waste. Proper use of the landfill is included in this training. In addition, discussions with supervisors of various departments within this facility are periodically conducted to maintain continual control of the waste being directed toward the landfill.

Nucor assigns overall responsibility of the landfill to one person. Currently, this person is an independent contractor who has the authority to inspect and reject any load that is intended to be deposited in the landfill. The independent contractor also maintains daily site records. An example site record is contained in Attachment 5.

Waste will be received at the landfill in a variety of containers and load sizes. Typical containers carrying waste to the landfill include small barrels carried in pickup trucks, buckets of front end loaders, 10-wheeled dump trucks, and other receptacles carried by fork lifts. Delisted EAF dust will be transferred to the monofill in enclosed bags placed in a roll-off or dump truck. The bags will be constructed of a nonwoven fabric with a fill spout that will be sealed with tape. The fill spout is used to transfer EAF dust from the storage silo attached to the mill air evacuation system. The bags are used to control fugitive dust emissions. Loads coming into the landfill will be spot-checked for acceptability by the landfill operator assigned by Nucor.

At the landfill, the vehicle carrying the load backs down a ramp and places the waste in the bottom of the pit. Placing the waste in the bottom of the pit limits windblown litter and fugitive emissions.

The material deposited in the landfill will be inspected daily by the landfill operator. Any material that should not have been deposited in the landfill will be removed, and appropriate Nucor personnel will be notified.

The landfill operator will determine if cover should be applied at the end of the day under the following conditions:

- 1) Is garbage² present?
- 2) Is litter present that may become windblown?
- 3) Is fine material present that may become fugitive dust?
- 4) Are the bags disposed in the monofill intact?
- 5) Is soil cover needed to gain equipment access to the working face?

If any of the above conditions exist, daily cover of approximately 6 inches of earth will be applied.

Some steel may be removed from the landfill and placed in steel scrap stockpiles for future recycling.

The amount and type of material placed in the landfill are recorded on forms daily, and a minimum of one daily inspection of the landfill is and will be completed. An example of a daily landfill tracking form is included in Attachment 5.

2.3 Contingency Plan for Fire or Explosion

No purposeful burning will occur at the landfill. In the event that an accidental fire occurs at the landfill, the fire will be extinguished through the use of a water truck, or by applying earthen cover. Several water trucks are operated at the facility and are readily available for firefighting purposes. Depending on the type of fire, covering the fire through the use of available on-site front-end loaders or dozers may also be done. These fires would be extinguished as they are discovered.

² Garbage is defined as "discarded animal and vegetable wastes and animal and vegetable wastes resulting from the handling, preparation, cooking and consumption of food, and of such character and proportion as to be capable of attracting or providing food for vectors...."

It is highly unlikely that an explosion would occur at the Nucor landfill, since very little methane-producing waste is landfilled. The endangerment to the public and Nucor personnel and contractors from an explosion is minimal due to the remoteness of the site from the public and Nucor's operations.

2.4 Groundwater Contamination Corrective Action Program

No groundwater contamination could reasonably be expected from operation of the landfill at Nucor. The waste entering the landfill is managed to control materials that enter the site as described in previous sections.

In addition, groundwater is not near the surface at the Nucor property. Four wells are located on property owned by Nucor. As part of the initial construction of this plant, Nucor drilled three of these wells. Through review of the Well Drillers Log for the wells, it is found that initial encounters with groundwater were found at depths ranging from 43 feet to 117 feet. A spring is also located on Nucor property at an elevation of approximately 150 feet below the elevation of the landfill.

As a Class IIIb landfill, no groundwater monitoring program is required. Given the types of material placed in the landfill and the landfill management program used, a groundwater contamination corrective action program will not be necessary.

2.5 Other Releases

No other releases from the Nucor landfill are expected. As discussed in previous sections, gases are not of concern because of the limited amount of organic material that would be placed in the landfill.

The monofill area has been designed to include runoff controls and a final cover system for final closure. Details of these systems are shown on Figure 1 in Attachment 6.

The active landfill area is a single pit. Surface water cannot leave the pit, and the amount of surface water entering the pit will be limited by constructing water control/diversion structures around the pit. A runoff collection system is not needed.

2.6 Fugitive Dust Control

The landfill at Nucor is a small component of activities at the Nucor site. Fugitive dust control is an ongoing activity at the site, and the practices are applied at the Nucor landfill. Nucor operates under conditions specified in an air quality permit issued by the Utah Division of Air Quality. This permit requires fugitive emission controls plant wide, and limits fugitive dust from the landfill to 20 percent opacity as determined by EPA Method 9. In addition, EAF dust disposed in the monofill will be contained in a bag that is filled directly from the EAF dust storage silo and sealed prior to disposal. Daily cover will also be used as needed to control dust.

2.6.1 Fugitive Roadway Emissions

The primary method of controlling fugitive dust from roadways leading to the landfill is to cover the roads with road base made from electric arc furnace slag. Slag is superior to other unpaved surfaces for dust control because the material does not readily grind into smaller particles that become airborne.

There is limited vehicle traffic to the landfill. This, alone, limits the amount of fugitive roadway emissions, and provides a long life for the slag used as a surfacing material. Nucor imposes plant-wide speed limits for all vehicles, which further controls fugitive roadway emissions.

In addition, Nucor provides plant-wide continuous dust control through the use of a water truck when weather conditions permit. The water truck operates plant wide, including the landfill, applying water to areas generating the greatest emissions.

2.6.2 Fugitive Emissions from Construction and Operation

Fugitive emissions generated from landfill construction and general operations are limited because these types of operations are infrequent. Construction activities include only the excavation of new pits, and new pit construction will occur only approximately once or twice per year. Pit construction is generally completed using a single piece of equipment, such as a backhoe or dozer, to excavate the pit. Other construction operations include road construction to new pit areas. Since the terrain in the area of the landfill is generally flat, road construction is basically limited to the laying of a slag surface described in the previous section. Construction activities are limited and cause very minimal fugitive emissions.

Emissions from operation of the landfill are also minimal. Operations comprise depositing materials in the landfill, which generally is not a fugitive emission source. If daily cover is applied, it involves the application of only a minimal amount of material using a single piece of equipment, typically a dozer. The daily cover is typically applied once per day on days when cover is warranted, and is completed in a relatively short period of time. Final cover of a pit requires additional equipment operating time; however, final cover is completed very infrequently, approximately once or twice per year. Emissions from landfill operations are minimal, and are already regulated by existing environmental quality requirements.

2.7 Hazardous Waste

As described in Section 1.4 of this document, procedures and practices are in place to ensure that hazardous waste does not enter the landfill.

2.8 Disease Vector Control

Disease vectors include animals such as rodents, birds, and insects that may carry disease from a landfill. Disease is primarily a concern when garbage is deposited in a landfill attracting vectors as a food source. Garbage is material derived from animal or vegetable wastes, or from the preparation of food.

The Nucor landfill does contain some garbage, primarily in the form of food waste from cafeteria carry-out containers. Waste from the cafeteria itself is not deposited in the landfill, but rather placed in dumpsters and hauled off-site to a municipal landfill.

Disease vector control will be accomplished by providing daily cover, on those days when garbage is placed in the landfill.

The EAF monofill will contain no organic material and thus should not present a vector concern.

2.9 Alternative Waste Handling Plan

The Nucor landfill is used as a supplement to waste handling at the Nucor facility. Many types of waste are shipped off-site according to the characterization of the waste. Nucor retains the use of a waste disposal service that provides dumpsters located throughout the facility. The service provider regularly picks up the dumpsters and transports the waste to a municipal landfill. Nucor employees are encouraged to use the dumpsters. Material accepted at the Nucor landfill is the same type of material that can be placed in the dumpsters.

2.10 Training and Safety Plan

The training and safety plan for the Nucor landfill is included as Attachment 7.

2.11 Compliance with Industrial Solid Waste Landfill Requirements

Section R315-304-3(2) and R315-304-3(3)(b) and the current operating permit define the Nucor landfill as a Class IIIb landfill. The Nucor landfill is not open to the general public, and it receives only nonhazardous industrial waste.

2.11.1 Location Standards

The existing Nucor landfill meets the location standards required for a Class IIIb landfill. A brief summary of the location requirements is in the following subsections.

- Class IIIb landfills are restricted from being located in a flood plain. The Nucor landfill is located on elevated terrain. See the location map in Attachment 1 for location and elevation details.
- Class IIIb landfills are restricted from being located in wetland areas. The Nucor landfill is not located in a wetland area.
- Class IIIb landfills are required to be located at least 5 feet above the historical high ground water elevation. Nucor has drilled three wells on the site property. The shallowest groundwater encountered in these wells was at greater than 40 feet from the surface. The maximum excavation depth for the new monofill and existing waste cells is 20 feet below existing grade. Previous excavations in and around the existing landfill have provided no evidence of groundwater. Based on this information, the landfill is located more than 5 feet above groundwater.

2.11.2 General Requirements (R315-304)

Applicable requirements contained in R315-302-2(2)(a) through (k), as described in R314-304, are addressed in various subsections of Section 2 of this document.

2.11.2.1 Closure and Post-Closure Care Plans

2.11.2.1.1 Closure Plan

All waste material placed in the landfill will be covered with a minimum of 2 feet of final earthen cover once the cell has reached capacity. The earthen cover will blend with the surrounding terrain and will be sloped so that water does not pond on top of the area.

Any remaining sloped areas that may be found on the outskirts of the landfill area will be regarded to a 2.5:1 slope, or flatter, to minimize erosion and to assist in the success of revegetation.

The landfill cover and regraded slopes will be seeded with a seed mix of vegetation native to the area. Prior to applying the seed on roadways to be reclaimed, the surface will be scarified with rippers mounted on heavy equipment, or similar method. Once the seed is spread by hand sewing, a dozer or other track-mounted piece of equipment will travel on the seeded area to cover the seeds and to create tracks to help hold atmospheric water. This tracking will also aid in the prevention of erosion. Seeding will only be completed in the spring or fall.

Reclaimed areas will be closed to future landfill use.

2.11.2.1.2 Post-Closure Care

Post closure care will include inspections for runoff/runoff control, vegetation success, final cover erosion damage, and settlement. Any deficiencies found would be repaired. The inspection would include all areas in which individual cells had been closed.

The frequency of the inspections will decrease over time because the probability that problems would occur decreases. Erosion of the final cover, if it were to occur, would most likely occur during the first year of being placed. If erosion of the final cover did occur, the effectiveness of runoff and runoff control would be analyzed at that time to determine if further site grading was required to redirect storm water flows. The success of revegetation would be able to be determined within the first 2 years of being seeded. Settlement would most likely occur over an extended period of time. If it were to occur, it would be expected within 10 to 15 years of final closure, given the types of materials to be placed in the landfill and the types of soil at the location. No inspections beyond 15 years are warranted.

The inspection schedule would be as follows:

<u>Year Following Final Closure</u>	<u>Inspection Frequency</u>	<u>Number of Inspections</u>
1	Quarterly	4
2-5	Annual	4
7-9	Biennial-	2
10-15	End of Period	1
	Total Inspections	11

The inspection schedule above applies in the event that the entire landfill is no longer used and has been closed. The schedule above would be implemented based on the final closure date.

During periods in which the landfill is operating, inspections of closed and reclaimed individual cells within the landfill area would occur as part of routine operation and maintenance of the landfill. Repairs of closed cells, if needed, would be completed as part of routine operation of the landfill.

2.11.2.1.3 Cost Estimates and Financial Assurance

The cost for closure is based on the following activities being accomplished.

- **Regrading.** The amount of material to be regraded is equal to the amount of material excavated for the pit construction. This previously excavated material will be needed to fill the excavation back in and/or to recontour the area surrounding a reclaimed pit to a minimum slope of 2.5:1. These flat slopes will minimize erosion and aid in the re-vegetation success. The amount of material removed in new pit construction is approximately 1,875 cubic yards for each individual pit. For purposes of financial assurance, no more than 10 pits would be unreclaimed at any one time plus the monofill area (approximately 6.9 acres). Because the monofill will be larger than the average cell used for general waste disposal, soil excavated from the monofill will be staged around the perimeter of the monofill to prevent surface water runoff.
- **Revegetation.** The area requiring revegetation is equal to the sum of the footprints of the cells to be reclaimed (10 or less). The landfill permit presently issued to Nucor does not require any reclamation. The proposed landfill is in an area substantially that has been used for landfill purposes by Nucor during historical operations and that has not previously been totally reclaimed. Areas subject to closure requirements by current regulations are pits that were active on July 15, 1999, or new pits constructed after this date.
- To be conservative, Nucor is proposing to include the cost of revegetating the entire 35-acre landfill area in calculations for financial assurance. Revegetation will consist of hand sowing seeds, and tracking the seeded area by operating tracked equipment to assist in water retention and seed coverup. The seed mix to be used is a mix of seeds that are native to the area surrounding Nucor (Attachment 8). Once revegetated, the area will no longer be used for landfilling purposes.

The landfill access road will require ripping prior to seeding. The cost for ripping is included in the cost calculations.

- **Other.** No equipment or structures will be dedicated to landfill operations. Class IIIb landfills are exempt from groundwater monitoring during operations and following closure. No additional cost is associated with closure.

Cost estimates for final closure are included as Attachment 9.

Post-closure care will also require financial assurance. Financial assurance will include costs associated with the following activities:

- As outlined in the previous section, a total of eleven inspections of the closed landfill would occur during a 15-year period following closure. No inspections beyond that time are necessary. For purposes of estimating the cost for the inspections to apply toward financial assurance it is assumed that a third-party contractor would perform the inspections. The inspector would be competent in discerning vegetation success, erosion problems, and settlement by completing a walk and a visual survey of the area and would generate a simple report that describes areas that require site work. For purposes of estimating costs, the amount of the inspection is escalated 2.5% per year to allow for inflation.
- The area immediately surrounding the landfill is gently sloping. As part of the initial Nucor facility construction, drainage around the landfill area was redirected to direct runoff from surrounding areas from entering the landfill area. The final covers for the individual cells to be used in the landfill are to have a 2.5:1 or flatter slope. The potential for damage owing to erosion is minimal. For financial assurance cost-estimating purposes, it is assumed that no more than 3000 yards of site grading using a dozer would be required to repair erosion damage. As a conservative estimate, it is assumed that all erosion repair would occur at the end of the 15-year period, and the cost is escalated at an annual rate of 2.5%.

- Settlement would be of concern if it caused runoff water to accumulate in a low spot allowing it to infiltrate into the closed cell. Settlement of the material and final cover of any cell is very unlikely to occur, given the type of material typically placed in the landfill and the type of soil at the site, as well as the relatively small size of the cells. For financial assurance purposes, it is assumed that the cost of repairing any settlement is included in the cost for repairing erosion described above.
- Revegetation would be required in any area in which repair was required, as described above, or in the event that the initial seeding was not successful. For estimating the costs to be included in financial assurance, it is assumed that no more than 1 acre would require revegetating. It is also assumed that revegetating activities would occur at the end of a 15-year period. An escalation factor of 2.5% annually is applied to the cost.

Documentation of the method of financial assurance is included in Attachment 10.

3.0 Technical Report

3.1 Maps

3.1.1 Topographic Map of Landfill Area

A topographic map of the landfill area with landfill boundaries is included in Attachment 3. Runoff control structures are not included for the general waste cells because the individual landfill pits will not have runoff. Runoff control will consist of earthen barriers constructed of the pit excavation material around three sides of the pits, and each pit will be oriented so that surface water does not run into the pit on the one open (ramp) side. The borrow and fill areas are the excavation material from each individual pit.

Additional details for runoff/runoff controls for the EAF dust monofill are shown on Figure 1 in Attachment 6. Runoff will be controlled with perimeter stockpiles constructed of soil from the cell excavation and shallow drainage ditches. Runoff will not be an issue until the waste is filled to existing grade (i.e., the waste elevation will be below the elevation of the surrounding terrain preventing runoff). As the waste elevation increases, runoff will be controlled in several ways as follows:

- The EAF dust will be disposed in bags that will limit contact with waste, precipitation, and surface water.
- Waste placement will be staged to allow a natural ditch configuration to form around the perimeter of the monofill cell. By leaving the perimeter of the cell exposed for final over tie-in, a natural ditch will form that will collect runoff from the fill area and allow it to percolate back into the cell. As waste is brought up to grade around the perimeter, daily cover will be applied more frequently to prevent waste erosion and runoff.

3.1.2 USGS Topographic Map

A portion of a 7-1/2 minute series USGS map that includes Nucor operations is included as Attachment 1. This map includes significant detail to identify structures within 1/4 mile of the proposed landfill. A map with greater detail showing the property boundaries of the landfill within the Nucor property is included in Attachment 3.

3.2 Engineering Report – Plans, Specifications, and Calculations

A drawing that details cell design, cover design, design fill, and cover methods for the existing landfill permit is included as Attachment 11. This drawing also details runoff and runoff control designs. For the March 2003 Permit Modification, the design drawing in Attachment 11 has been modified to include sideslopes in excavated pits. The sideslopes are being added as a conservative feature to aid worker safety. The inclusion of sideslopes will not affect the design of the landfill.

3.3 Closure Plan

3.3.1 Closure Schedule

There is no long-term closure schedule for the landfill in the area set aside for landfill operations. The landfill will be operating indefinitely during all times that the Nucor plant is in operation.

Individual pits, however, will be closed once they reach capacity and a new pit is excavated. Each pit will receive final cover as a new cell becomes available for use. The EAF dust monofill has been designed for a site life of approximately 15 years, with each cell being operational for approximately 7.5 years. The site life is dependent on EAF dust generation rates. The monofill will be closed when its capacity is reached. Additional monofills will be evaluated if the initial cell is filled to capacity.

3.3.2 Design of Final Cover

Final cover of landfilled material will be a minimum of 2 feet thick. The construction material for the cover will be primarily a silty material that was excavated from the pits during the initial excavation of the individual cells. This material also serves as topsoil. Design of the final cover is detailed in the drawings included as Attachments 6 and 11.

3.3.3 Capacity of the Site

Each of the individual pits for general waste will have a capacity of approximately 2,200 cubic yards of land-filled material before final cover is placed over the area. The landfilled material will consist of a combination of waste and daily cover material (earth) that has been placed as needed during the life of the pit. Because of the uncertainty of the type of material that will be placed in the landfill, and the uncertainty of the proportion of daily cover material contained in the landfill, the weight of landfilled material cannot be accurately projected.

The EAF dust monofill will be constructed over 6.9 acres to provide a disposal volume of approximately 226,00 cubic yards (CY). This volume is designed to handle 15 years of EAF dust generation based on average generation rate of 15,000 CY per year. Note that the waste will consolidate in the monofill to allow space for daily cover.

3.3.4 Final Inspection by Regulatory Agencies

The landfill at the Nucor site will operate indefinitely in an area used historically as a landfill site. Future landfill operations will consist of the construction of individual pits, as described in previous sections, with a defined design. Only one single pit will be used as a general waste disposal area at any one time, and when the pit reaches capacity, the pit will be closed and reclaimed. In addition, the EAF dust monofill will also be in operation. The site life for the monofill has been estimated at 15 years. Final inspections by regulatory agencies of individual pit closures could occur at any time following the closure of the first pit. However, a schedule for final closure of the entire landfill area cannot be defined.

4.0 Post-Closure Care Plan

4.1 Site Monitoring

Site monitoring following closure is described in detail in Subsection 2.11.2.1.2, Post-Closure Care.

4.2 Changes to Record of Title, Land Use, and Zoning Restrictions

The Nucor facility is a permanent operation. The landfill is a component of the operations located within Nucor property boundaries. It is not reasonable to expect that there will be a change in title, land use, or zoning restrictions.

4.3 Maintenance Activities – Runon/Runoff Control Systems

As each individual pit or cell reaches capacity, steps toward reclamation will be taken by placing a final cover on the landfilled material and regrading to flat slopes. Seeding activities may be conducted in the spring or fall following closure of each individual pit. However, to be conservative in financial assurance calculations, it is assumed that all reclamation activities will be conducted on up to 10 cells at once and the entire 35-acre area will be revegetated. The reclamation procedure is described in detail in previous sections of this document. The final cover will minimize potential surface water runon and runoff contamination, and the flat slopes and established vegetation will minimize erosion potential from both runon and runoff. No ongoing maintenance activities are expected to be necessary; however, if any problems with closed cells are found during periods when the landfill is still operating, repairs will be completed as necessary.

A description of post-closure care in the event that the entire landfill is closed is included in Subsection 2.11.2.1.3, Cost Estimates and Financial Assurance.

4.4 Contacts for Post-Closure Care

The Nucor facility is a permanent operation. The Nucor landfill area does not have a scheduled closure date, and will operate during the life of the facility. The on-site contact for the landfill is:

Doug Jones, Environmental Engineer
Nucor Steel
PO Box 100
Plymouth, Utah 84330
(435) 458-2415

The corporate contact for Nucor, to be used as an alternate contact to the local contact is:

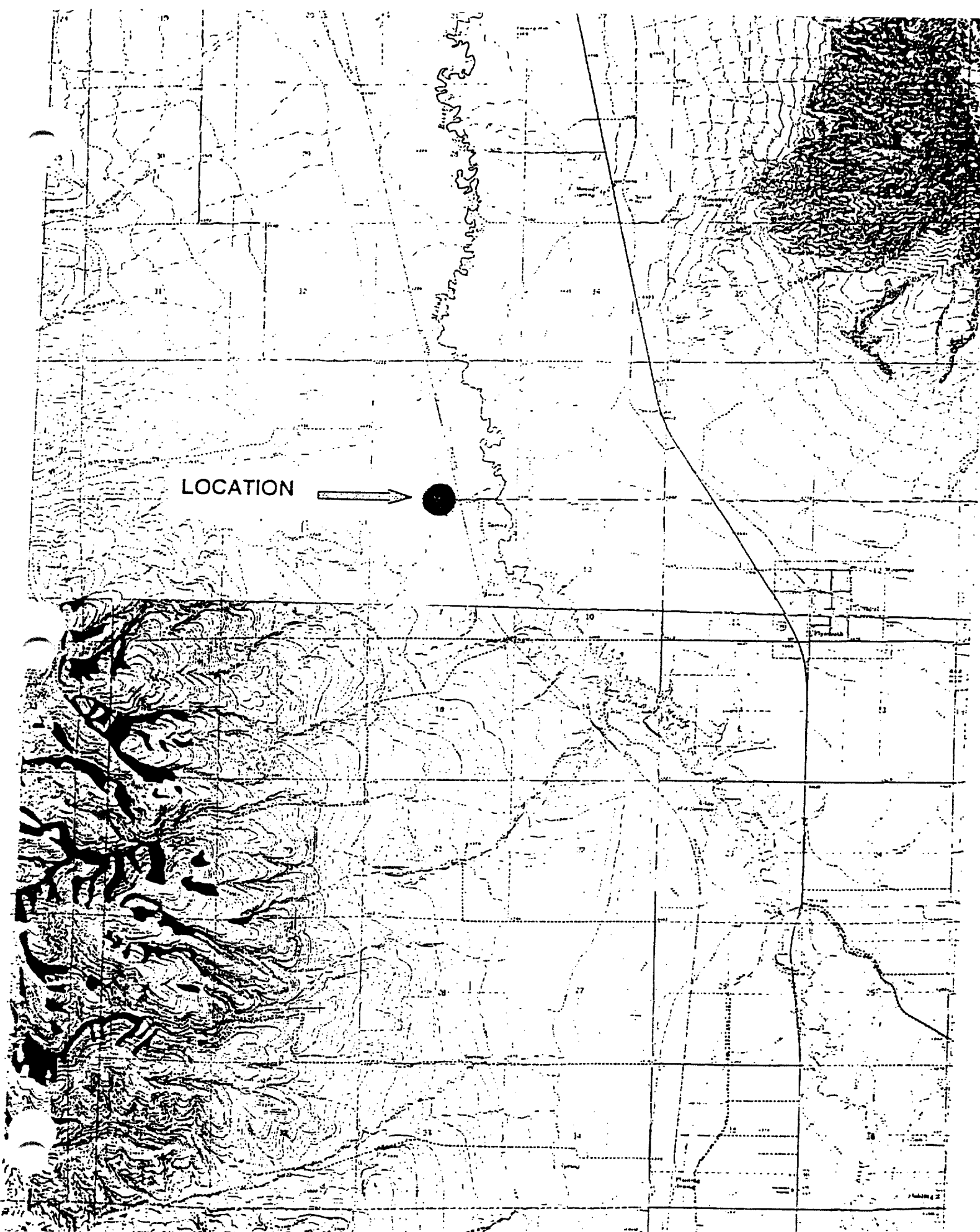
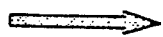
Steve Rowlan, Manager of Environmental Affairs
Nucor Steel Corporation
2100 Rexford Road
Charlotte, NC 28211
(704) 366-7000

5.0 Financial Assurance

Cost calculations for closure, a description of post-closure care, and a description of the financial assurance mechanism are all addressed in previous sections of this document.

Attachment 1 Location Map

LOCATION



Attachment 2
Existing Landfill Permit



DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF SOLID AND HAZARDOUS WASTE

Michael O. Leavitt
Governor

Dianne R. Nielson, Ph.D.
Executive Director

Dennis R. Downs
Director

288 North 1460 West
P.O. Box 144880
Salt Lake City, Utah 84114-4880
(801) 538-6170
(801) 538-6715 Fax
(801) 536-4414 T.D.D.
www.deq.state.ut.us Web

RECEIVED
MAY - 2 2000
NUCOR STEEL
PLYMOUTH, UTAH

April 28, 2000

Douglas Jones, Environmental Engineer
Nucor Steel
PO Box 100
Plymouth, Utah 84330

Subject: Nucor Steel Class IIIb Landfill Permit

Dear Mr. Jones:

Enclosed is the Permit to operate the existing Class IIIb Landfill at the Nucor Steel site in Plymouth, Box Elder County, Utah. The Permit expires on the date shown on the cover sheet. If renewal is desired, Nucor Steel must apply for the renewal of the Permit 180 days prior to the expiration date.

A public comment period on the permit application and the draft permit began on March 22, 2000 and ended April 21, 2000. No comments were received.

Periodic inspections of the landfill will be conducted. Personnel from the Division of Solid and Hazardous Waste and/or the Bear River Health Department will inspect the facility to assess compliance with the conditions of the permit and the applicable Solid Waste Rules.

There is one condition of the Permit that needs immediate attention. On or before 90 days after the effective date of the Permit, Nucor Steel must submit to the Executive Secretary of the Utah Solid and Hazardous Waste Control Board documentation of financial assurance that meets the requirements of the Utah Administrative Code, R315-309. Please take the action necessary to meet this requirement in a timely manner.

If you have questions or need further information, please contact Carl Wadsworth or Ralph Bohn at 801-538-6170.

Sincerely,



Dennis R. Downs, Executive Secretary

Utah Solid and Hazardous Waste Control Board

DRD/CEW/kg

Enclosure

c: John C. Bailey, M.D., M.S.P.H., Director, Bear River Health Department

**UTAH SOLID AND HAZARDOUS WASTE CONTROL BOARD
SOLID WASTE PERMIT**

CLASS IIIb LANDFILL

Pursuant to the provisions of the *Utah Solid and Hazardous Waste Act*, Title 19, Chapter 6, Utah Code Annotated (UCA) 1953, as amended (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code (UAC) R315-301 through 320 adopted thereunder,

NUCOR STEEL

is hereby authorized to operate a Class III Landfill located in Section 9, Township 13 North, Range 3 West, Salt Lake Base and Meridian, Box Elder County, Utah as described and shown in the permit application received January 10, 2000 and amended February 23, 2000.

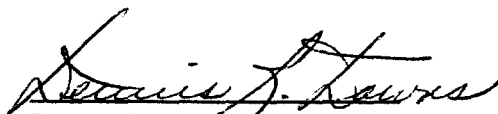
The operation of the landfill is subject to the condition that Nucor Steel (Permittee) meet the requirements set forth herein.

All references to UAC R315-301 through 320 are to regulations that are in effect on the date that this permit becomes effective. If changes are made in UAC R315-301 through 320 that affect the operation or activities at the landfill, the changes shall become effective on the landfill 180 days following the effective date of the rule or upon a compliance schedule as established for the landfill by the Executive Secretary.

Effective date: 15 May 2000.

Expiration date: 14 May 2005.

Signed this 28 day of April, 2000.



Dennis R. Downs, Executive Secretary
Utah Solid and Hazardous Waste Control Board

NAME Nucor Steel Class IIIb Landfill

ADDRESS PO Box 100
Plymouth, Utah 84330
Telephone: 435-458-2300

TYPE Class IIIb Solid Waste Landfill

APPROVAL # 0001

LOCATION The landfill is located at the Nucor Steel Plant in Township 13 North, Range 3 West, Section 9, Salt Lake Base and Meridian, Box Elder County, as described and shown in the permit application received January 10, 2000 and amended February 23, 2000.

Permit as used in this document is defined in UAC R315-301-2(54).

The application was deemed complete on February 28, 2000 and is hereby approved and incorporated by reference into this Solid Waste Permit. All representations made in the permit application are part of this permit and are enforceable under UAC R315-301-5(2). The permit application will become part of the operating record of the Landfill. Where differences in wording exist between this permit and the application, the wording of the permit supersedes that of the application.

By this permit to operate, the permittee shall be subject to the following conditions.

I. GENERAL COMPLIANCE RESPONSIBILITIES

A. General Operation

The Permittee shall operate the Class IIIb landfill in accordance with the conditions of this Permit and with all requirements of UAC R315-304, that are currently effective for a Class IIIb Landfill, unless otherwise noted in this permit. Any permit noncompliance constitutes a violation of UAC R315-304 and is grounds for appropriate enforcement action, permit termination, modification, or denial of a permit renewal application.

B. Noncompliance

1. If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under UAC R315-301 through 320 may be or is being violated, the Permittee shall promptly make corrections to the operation or other activities to bring the facility into compliance with all permit conditions or rules. In the event of any noncompliance with any permit condition or violation of an applicable rule, the Permittee shall promptly take any feasible action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing of warning signs, or permanently closing areas of the facility. The Permittee shall: document the noncompliance or violation in the operating record; notify the Executive Secretary of the Solid and Hazardous Waste Control Board within 24 hours, or the next business day following the event; and give written notice of the noncompliance or violation and measures taken to protect public health and the environment within seven days. Within thirty days of the occurrence of the event, the Permittee shall submit, to the Executive Secretary, a written report describing the nature and extent of the noncompliance or violation and the remedial measures taken or to be taken to protect human health and the environment and to eliminate the noncompliance or violation. Upon receipt and review of the assessment report, the Executive Secretary may order the Permittee to perform appropriate remedial measures including development of a site remediation plan for approval by the Executive Secretary.
2. It shall not constitute a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
3. Compliance with the terms of this permit does not constitute a defense to actions brought under any other local, State, or Federal laws. This permit does not exempt the Permittee from obtaining any other local, State or Federal permits or approvals.
4. The issuance of this Permit does not convey any property rights, other than the rights inherent in this permit, in either real or personal property, or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations including zoning ordinances.

C. Inspection and Inspection Access

The Permittee shall allow the Executive Secretary of the Utah Solid and Hazardous Waste Control Board, or an authorized representative, including representatives from the Bear River Health Department, to enter at reasonable times and:

1. Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or UAC R315-301 through 320;
2. Have access to and copy any records required to be kept under the terms and conditions of the Permit or UAC R315-301 through 320;
3. Inspect any loads of waste, treatment, pollution management, or control facilities required under the Permit or regulated under UAC R315-301 through 320; and
4. Obtain a record of any inspection by photographic, videotape, electronic, or other reasonable means.

D. Prohibited Waste

No hazardous waste as defined by UAC R315-1 and R315-2; PCB's as defined by UAC R315-301(52), except those specified by UAC R315-315-7(2)(a) and (c); household waste; municipal waste; special waste, except as specified in this permit; or commercial waste shall be accepted for treatment, storage, or disposal at the landfill.

E. Acceptable Waste

This permit is for disposal of nonhazardous industrial waste, as defined in UAC R315-301-2(34), and carcasses of animals that may be accidentally killed on the plant site.

F. Revocation

This permit is subject to revocation if any condition of this permit is not being met. The permittee will be notified in writing prior to any proposed revocation action and such action will be subject to all applicable hearing procedures established under UAC R315-12 and the *Utah Administrative Procedures Act*.

Revocation of this permit does not revoke the financial assurance established for closure and post-closure care of the facility, nor remove any responsibility for completion closure and post-closure care for the facility required in UAC R315-

II. DESIGN AND CONSTRUCTION

A. Construction

1. The landfill shall be constructed in the area designated and according to the design outlined in the permit application including fences, gates and berms.
2. Perimeter drainage channels and berms shall be constructed as specified in the permit application. These channels shall be maintained at all times to effectively prevent run-off from the surrounding property from entering the landfill.

III. LANDFILL OPERATION

A. Operations Plan

The operations plan included in the permit application shall be kept on-site at the landfill. The landfill shall be operated in accordance with the operations plan as included in the permit application.

B. Security

The Permittee shall operate the Landfill in a manner such that unauthorized entry to the facility is prevented. The front gate shall be locked during the time the landfill is not open. Fencing as shown in the permit application shall be constructed to prevent access of persons or livestock by other routes.

C. Waste Inspections

The landfill operator will inspect all waste to verify that no wastes other than those allowed by this Permit are disposed in the landfill.

D. Dead Animals

Animal carcasses may be disposed at the bottom of the landfill working face and must be covered with other solid waste or earth by the end of the working day they are received or they may be disposed in a special trench or pit prepared for the acceptance of dead animals. If a special trench is used, animals placed in the

trench shall be covered with six inches of earth by the end of each working day.

E. Cover

The permittee shall cover the waste as necessary to prevent fires, and control vectors, blowing litter, odor, scavenging, and fugitive dust. Wastes that are capable of attracting or providing food for vectors, materials that may become windblown litter, or fine materials that may become fugitive dust shall be covered with a minimum of six inches of earth at the end of the working day in which they are received. A minimum of six inches of earthen cover shall be provided no less than once each month for all other wastes received at the landfill.

F. Disposal of Liquids

Disposal of noncontainerized material containing free liquids or any waste containing free liquids in containers larger than five gallons is prohibited.

G. Roads

All roads used for transporting waste to the landfill for disposal shall be improved and maintained as necessary to assure safe and reliable all-weather access to the disposal area.

H. Burning of Waste

Intentional burning of solid waste is prohibited and is a violation of UAC R315-303-5(2)(b). All accidental fires shall be extinguished as soon as possible.

I. Record Keeping

The Permittee or operator of the facility shall maintain, at the Nucor Steel plant offices, an operating record as required by UAC R315-302-2(3). The operating record shall include the following items:

1. A copy of the permit including the permit application;
2. The number of loads of waste and the weights or estimates of weights received each day of operation;
3. Major deviations from the approved plan of operation;
4. Records of employee training;

5. Records of all inspections conducted by the Permittee;
6. Results of inspections conducted by representatives of the Utah Solid and Hazardous Waste Control Board and representatives of the Bear River Health Department when forwarded to the permittee; and
7. Closure and Post-closure care plans.

J. Reporting

The Permittee shall prepare and submit an Annual Report, as required in UAC R315-302-2(4), to the Executive Secretary which includes period covered by the report, annual quantity of waste received, annual update of the financial assurance mechanism, and training programs completed.

K. Self Inspections

The owner or operator shall complete quarterly inspections of the landfill site including any required access controls and run-on/run-off controls. A record of these inspections shall be maintained in the operating record.

IV. CLOSURE REQUIREMENTS

A. Closure

The Permittee shall close and maintain the facility in accordance with the closure and post-closure plans included in the permit application and as required by R315-305-5(5) UAC.

B. Title Recording

The Permittee shall make the title recording required in UAC R315-302-2(6).

C. Post-Closure Care

The post-closure care at the closed landfill shall be done in accordance with the Post-Closure Care Plan contained in the permit application for a period of 30 years or until the Executive Secretary finds that the closed landfill has become stabilized and the conditions of UAC R315-302-3(7)(b) or (c) have been met.

D. Financial Assurance

On or before 90 days of the effective date of this Permit, the Permittee shall submit to the Executive Secretary for approval, a financial assurance mechanism that will cover the current estimated costs for closure and post-closure care at the landfill that meets the requirements of UAC R315-309. After a financial assurance mechanism has been approved by the Executive Secretary, the Permittee shall keep an approved financial assurance mechanism in effect and active until closure and post-closure care activities are completed. The financial assurance shall be up-dated each year as part of the annual report as required by UAC R315-309-2(2).

V. ADMINISTRATIVE REQUIREMENTS

A. Transfers

This permit may be transferred to a new permittee by meeting the requirements of the Permit Transfer provision in UAC R315-310-10.

B. Permit Modifications

Modifications to this permit may be made upon application by the Permittee or by the Executive Secretary. The Permittee will be given written notice of any permit modification initiated by the Executive Secretary.

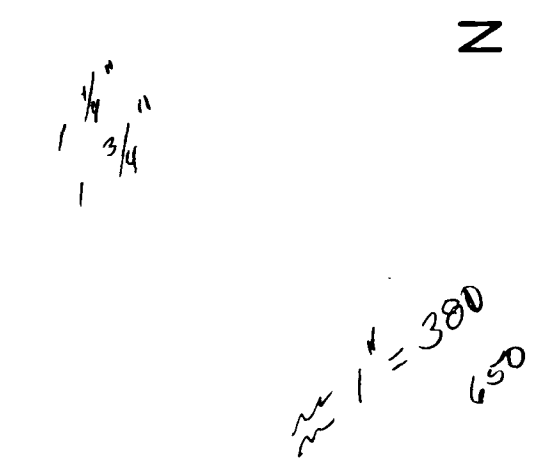
C. Expiration

Application for permit renewal shall be made at least six months prior to the expiration date, as shown on the signature (cover) page of this permit. If a timely renewal application is made and the permit renewal is not complete by the expiration date, this permit will continue in force until renewal is completed or denied.


D. Expansion

Any expansion of the landfill facility beyond the areas designated in the permit application will require submittal of a new permit application in accordance with the requirements outlined in UAC R315-310. Permittee may not begin construction of any expansion until approval of the new permit is received from the Executive Secretary of the Utah Solid and Hazardous Waste Control Board.

Attachment 3 Site Plan



REFERENCE DWG. NO.

NUCOR STEEL A DIVISION OF NUCOR CORPORATION PLYMOUTH, UTAH	
Class 11b Landfill Permit Application January 2000	
SCALE: 1/192 (1/16"=1')	DATE: 12/14/99
DRAWN: <u>CU</u>	ASS'Y. DWG.:
TRACED:	SUPERSEDED:
CHK'D.:	SUPERSEDED BY:
APP'D.:	MAT'L
FILE	DWG.
	REV. 

Attachment 4
Proof of Property Ownership

FILING NUMBER ON ALL CORRESPONDENCE:

PARCEL NO.

TAX DISTRICT

0 35-0001

124

PROPERTY DESCRIPTION

BEG AT NW COR OF SEC 9, TWP 13N, R 3W, SLM, S 0*14'03"W 3945.19 FT, E 1333 FT, S 331.50 FT, E 2328 FT, N 35*13'E 408 FT, N 50*15'E 440 FT, N 18*35'E 555 FT, N 76*30'E 342 FT, N 35*20'E 274 FT, S 57*00'E 260 FT, N 37*51'46"E 302.47 FT TO E LINE OF SD SEC 9, N 0*04'21"W 2733.51 FT TO NE COR OF SD SEC 9, N 89*58'48"W 2202 FT ALG N LINE OF SEC 9, M/L TO

WARD THIS NOTICE TO NEW OWNER IF PROPERTY HAS BEEN SOLD

NUCOR CORPORATION
% CHARLES ZURCHER
PO BOX 100
PLYMOUTH, UT 84330-0100

B001

LAST YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	17,856,268
TOTAL	17,856,268

THIS YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	19,067,989
TOTAL	19,067,989

CURRENT AND PROPOSED PROPERTY TAXES

TAXING ENTITIES	%Tax	TAX LAST YEAR	TAX THIS YEAR IF NO BUDGET CHANGE	TAX THIS YEAR IF PROPOSED BUDGET APPR.	A PUBLIC MEETING WILL BE HELD:
MOUTH CEMETERY	2.0	3,285.55	3,508.51	3,508.51	AUG 23, 1999 6:00 PM RT COUNTY COURTHOUSE SEP 8, 1999 6:30 PM L OFFICE BRD ROOM
Q ABATEMENT D	2.2	3,606.97	3,794.53	3,794.53	
LIBRARY FUND	2.1	1,249.94	1,296.62	3,603.85	
JR COUNTY GEN	15.4	25,641.60	26,924.00	26,924.00	
ELDER SCHOOL DIS	51.7	73,746.39	83,746.61	90,306.00	
IC SCHOOL LEVY	20.1	32,855.53	35,085.10	35,085.10	
TI-COUNTY ASSNG &	2.5	4,071.23	4,442.84	4,442.84	
R RIVER WATER CON	1.9	3,142.70	3,298.76	3,298.76	
ASSNG/COLLECTING	2.1	3,624.82	3,718.26	3,718.26	
TOTAL PROPERTY TAX		151,224.73	165,815.23	174,681.85	

COUNTY BOARD OF EQUALIZATION INFORMATION

APPEALS IN REGARD TO THE ASSESSED VALUATION OF ANY PROPERTY MUST BE MADE TO THE COUNTY BOARD OF EQUALIZATION ON THE FOLLOWING DATES. TAXPAYERS DISSATISFIED WITH DECISION OF COUNTY BOARD OF EQUALIZATION MAY APPEAL TO STATE TAX COMMISSION WITHIN 30 DAYS AFTER DECISION OF COUNTY BOARD. THE APPEAL FILING DATES AND DATES IDENTIFIED ON THE ENCLOSED NOTICE OF VALUATION AND TAX CHANGE APPLY TO ALLY ASSESSED PROPERTIES ONLY AND NOT TO ANY PROPERTIES ASSESSED BY THE STATE TAX COMMISSION. COUNTY BOARD MEETS AT 01 SOUTH MAIN, BRIGHAM CITY, UTAH (435)734-3319, (435)257-5810.

COUNTY APPEAL FORMS TO BE COMPLETED PRIOR TO BOARD OF EQUALIZATION. FORMS AVAILABLE AT AUDITOR'S OFFICE.

*** PLEASE READ BACK OF NOTICE CAREFULLY ***

01 SOUTH MAIN, BRIGHAM, COM. CHAMBER
23 AUG, 1999 3:00 - 5:00
30 AUG, 1999 2:00 - 4:00
31 AUG, 1999 5:00 - 7:00
07 SEP, 1999 2:00

RECEIVED

AUG 19 1999

Note: %TAX = Percent of your tax dollar that this entity receives.

1999

NOTICE OF PROPERTY VALUATION & TAX CHANGE

BOX ELDER COUNTY, BRIGHAM CITY, UTAH

< THIS IS NOT A BILL - DO NOT PAY >

USE THIS NUMBER ON ALL CORRESPONDENCE

PARCEL NO.

7-035-0004

TAX DISTRICT

123

PROPERTY DESCRIPTION

BEG AT A PT LOCATED S 0°04'21"E
2620.30 FT FROM NE COR OF SEC 9
T13N R3W SLM, S 0°04'21"E 100.00 FT
N 89°06'40"W 1845.38 FT, N 0°53'20"
E 100.00 FT, S 89°06'40"E 1843.70
FT TO BEG. CONT 4.23 ACRES M/L

FORWARD THIS NOTICE TO NEW OWNER IF PROPERTY HAS BEEN SOLD

NUCOR CORPORATION
% JAMES, ALAN
PO BOX 100
PLYMOUTH, UT 84330-0100

B001

|||||

LAST YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	1,300
TOTAL	1,300

THIS YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	1,300
TOTAL	1,300

CURRENT AND PROPOSED PROPERTY TAXES

TAXING ENTITIES	%Tax	TAX LAST YEAR	TAX THIS YEAR IF NO BUDGET CHANGE	TAX THIS YEAR IF PROPOSED BUDGET APPR.	A PUBLIC MEETING WILL BE HELD:
UTH	25.6	3.84	4.09	4.09	AUG 23, 1999 6:00 PM BE COUNTY COURTHOU SEP 8, 1999 6:30 PM DIST OFFICE BRD ROO
SOUTH CEMETERY	1.5	.24	.24	.24	
QUITO ABATEMENT D	1.6	.26	.26	.26	
COUNTY LIBRARY FUND	1.5	.09	.09	.25	
BOX ELDER COUNTY GEN	11.5	1.87	1.84	1.84	
BOX ELDER SCHOOL DIS	38.5	5.37	5.71	6.16	
BASIC SCHOOL LEVY	15.0	2.39	2.39	2.39	
MULTI-COUNTY ASSNG &	1.9	.30	.30	.30	
BEAR RIVER WATER CON	1.4	.23	.22	.22	
CO ASSNG/COLLECTING	1.6	.26	.25	.25	
TOTAL PROPERTY TAX		14.85	15.39	16.00	

COUNTY BOARD OF EQUALIZATION INFORMATION

COMPLAINTS IN REGARD TO THE ASSESSED VALUATION OF ANY PROPERTY MUST BE MADE TO THE COUNTY BOARD OF EQUALIZATION ON THE FOLLOWING DATES. TAXPAYERS DISSATISFIED WITH DECISION OF COUNTY BOARD MAY APPEAL TO STATE TAX COMMISSION WITHIN 30 DAYS AFTER DECISION OF COUNTY BOARD. THE APPEAL PROCEDURES AND DATES IDENTIFIED ON THE ENCLOSED NOTICE OF VALUATION AND TAX CHANGE APPLY TO LOCALLY ASSESSED PROPERTIES ONLY AND NOT TO ANY PROPERTIES ASSESSED BY THE STATE TAX COMMISSION. APPEALS BOARD MEETS AT 01 SOUTH MAIN, BRIGHAM CITY, UTAH (435)734-3319, (435)257-5810.

COUNTY APPEAL FORMS TO BE COMPLETED PRIOR TO BOARD
OF EQUALIZATION. FORMS AVAILABLE AT AUDITOR'S OFFICE.

*** PLEASE READ BACK OF NOTICE CAREFULLY ***

01 SOUTH MAIN, BRIGHAM, COM. CHAMBER
23 AUG, 1999 3:00 - 5:00
30 AUG, 1999 2:00 - 4:00
31 AUG, 1999 5:00 - 7:00
07 SEP, 1999 2:00 - 4:00

* Note: %TAX = Percent of your tax dollar that this entity receives.

1999

NOTICE OF PROPERTY VALUATION & TAX CHANGE

BOX ELDER COUNTY, BRIGHAM CITY, UTAH

< THIS IS NOT A BILL - DO NOT PAY >

USE THIS NUMBER ON ALL CORRESPONDENCE

PARCEL NO.

7-037-0054

TAX DISTRICT

124

PROPERTY DESCRIPTION

PART OF NE/4 OF NW/4 OF SEC 11, T
13N, R 3W, SLM, BEG AT A PT LOC E
1593.72 FT ALG SEC LINE & S 33.00
FT FRM NW COR OF SEC, POB BEING ON
WLY LINE OF ST HWY & S LINE OF CO
ROAD, S 33*21'E 119.71 FT ALG WLY
LINE OF ST HWY, W 141.81 FT, N
100.00 FT TO S LINE OF CO ROAD, E
76.00 FT ALG S LINE OF CO ROAD TO
POB. CONTG 0.25 AC.

FORWARD THIS NOTICE TO NEW OWNER IF PROPERTY HAS BEEN SOLD

NUCOR CORPORATION

B001

% JAMES, ALAN

PO BOX 100

PLYMOUTH, UT 84330-0100

|||||

LAST YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	963
TOTAL	963

THIS YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	963
TOTAL	963

CURRENT AND PROPOSED PROPERTY TAXES

TAXING ENTITIES	%Tax	TAX LAST YEAR	TAX THIS YEAR IF NO BUDGET CHANGE	TAX THIS YEAR IF PROPOSED BUDGET APPL	A PUBLIC MEETING WILL BE HELD:
UTH CEMETERY	2.0	.18	.18	.18	AUG 23, 1999 6:00 PM 8E COUNTY COURTHO SEP 8, 1999 6:30 PM DIST OFFICE BRD ROX
UTO ABATEMENT D	2.2	.19	.19	.19	
ITY LIBRARY FUND	2.1	.07	.07	.18	
BOX ELDER COUNTY GEN	15.4	1.38	1.36	1.36	
BOX ELDER SCHOOL DIS	51.7	3.98	4.23	4.56	
BASIC SCHOOL LEVY	20.1	1.77	1.77	1.77	
MULTI-COUNTY ASSNG &	2.5	.22	.22	.22	
BEAR RIVER WATER CON	1.9	.17	.17	.17	
CO ASSNG/COLLECTING	2.1	.20	.19	.19	
TOTAL PROPERTY TAX		8.16	8.38	8.82	

COUNTY BOARD OF EQUALIZATION INFORMATION

COMPLAINTS IN REGARD TO THE ASSESSED VALUATION OF ANY PROPERTY MUST BE MADE TO THE COUNTY BOARD OF EQUALIZATION ON THE FOLLOWING DATES. TAX PAYERS DISSATISFIED WITH DECISION OF COUNTY BOARD MAY APPEAL TO STATE TAX COMMISSION WITHIN 30 DAYS AFTER DECISION OF COUNTY BOARD. THE APPEAL PROCEDURES AND DATES IDENTIFIED ON THE ENCLOSED NOTICE OF VALUATION AND TAX CHANGE APPLY TO LOCALLY ASSESSED PROPERTIES ONLY AND NOT TO ANY PROPERTIES ASSESSED BY THE STATE TAX COMMISSION. APPEALS BOARD MEETS AT 01 SOUTH MAIN, BRIGHAM CITY, UTAH (435)734-3319, (435)257-5810.

COUNTY APPEAL FORMS TO BE COMPLETED PRIOR TO BOARD OF EQUALIZATION. FORMS AVAILABLE AT AUDITOR'S OFFICE.

***** PLEASE READ BACK OF NOTICE CAREFULLY *****

01 SOUTH MAIN, BRIGHAM, COM. CHAMBER
23 AUG, 1999 3:00 - 5:00
30 AUG, 1999 2:00 - 4:00
31 AUG, 1999 5:00 - 7:00
07 SEP, 1999 2:00 - 4:00

* Note: %TAX = Percent of your tax dollar that this entity receives.

1999

NOTICE OF PROPERTY VALUATION & TAX CHANGE

BOX ELDER COUNTY, BRIGHAM CITY, UTAH

< THIS IS NOT A BILL - DO NOT PAY >

USE THIS NUMBER ON ALL CORRESPONDENCE

PARCEL NO.

J7-091-0004

TAX DISTRICT

124

PROPERTY DESCRIPTION

ALL OF SE/4 OF SEC 4, TWP 13N, R 3W, SLM, LYING E OF OSLRR R/W & W OF MALAD RIVER. ALSO THAT PROTION OF SW/4 OF SEC, LYING E OF E R/W LINE OF EXIST R.R. BEG AT A PT LOC N 89° 58'48"W 818.01 FT FRM SE COR OF SE 1/4, TWP 13N, R 3W, SLM. SUCH A PT BEING ALSO ON S LINE OF SD SEC 4, RUNNING N 89°58'48"W 1223.93 FT M/ TO E R/2 LINE OF OSLRR, N 13°48'43"

FORWARD THIS NOTICE TO NEW OWNER IF PROPERTY HAS BEEN SOLD

NUCOR CORPORATION
% JAMES, ALAN
PO BOX 100
PLYMOUTH, UT 84330-0100

B001

LAST YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	24,125
TOTAL	24,125

THIS YEAR'S MARKET VALUE

PROPERTY TYPE	MARKET VALUE
COM LAND & IMPROVEMENTS	24,125
TOTAL	24,125

CURRENT AND PROPOSED PROPERTY TAXES

TAXING ENTITIES	%Tax	TAX LAST YEAR	TAX THIS YEAR IF NO BUDGET CHANGE	TAX THIS YEAR IF PROPOSED BUDGET APPR.	A PUBLIC MEETING WILL BE HELD:
SOUTH CEMETERY	2.0	4.44	4.44	4.44	
QUITO ABATEMENT D	2.2	4.87	4.80	4.80	
COUNTY LIBRARY FUND	2.1	1.69	1.64	4.56	
BOX ELDER COUNTY GEN	15.4	34.64	34.06	34.06	AUG 23, 1999 6:00 PM BE COUNTY COURTHO
BOX ELDER SCHOOL DIS	51.7	99.64	105.96	114.26	SEP 8, 1999 6:30 PM DIST OFFICE BRD ROX
BASIC SCHOOL LEVY	20.1	44.39	44.39	44.39	
MULTI-COUNTY ASSNG &	2.5	5.50	5.62	5.62	
BEAR RIVER WATER CON	1.9	4.25	4.17	4.17	
CO ASSNG/COLLECTING	2.1	4.90	4.70	4.70	
TOTAL PROPERTY TAX		204.32	209.78	221.00	

COUNTY BOARD OF EQUALIZATION INFORMATION

COMPLAINTS IN REGARD TO THE ASSESSED VALUATION OF ANY PROPERTY MUST BE MADE TO THE COUNTY BOARD OF EQUALIZATION ON THE FOLLOWING DATES. TAX PAYERS DISSATISFIED WITH DECISION OF COUNTY BOARD MAY APPEAL TO STATE TAX COMMISSION WITHIN 30 DAYS AFTER DECISION OF COUNTY BOARD. THE APPEAL PROCEDURES AND DATES IDENTIFIED ON THE ENCLOSED NOTICE OF VALUATION AND TAX CHANGE APPLY TO LOCALLY ASSESSED PROPERTIES ONLY AND NOT TO ANY PROPERTIES ASSESSED BY THE STATE TAX COMMISSION. APPEALS BOARD MEETS AT 01 SOUTH MAIN, BRIGHAM CITY, UTAH (435)734-3319, (435)257-5810.

COUNTY APPEAL FORMS TO BE COMPLETED PRIOR TO BOARD OF EQUALIZATION. FORMS AVAILABLE AT AUDITOR'S OFFICE.

***** PLEASE READ BACK OF NOTICE CAREFULLY *****

01 SOUTH MAIN, BRIGHAM, COM. CHAMBER
23 AUG, 1999 3:00 - 5:00
30 AUG, 1999 2:00 - 4:00
31 AUG, 1999 5:00 - 7:00
07 SEP, 1999 2:00 - 4:00

* Note: %TAX = Percent of your tax dollar that this entity receives.

Attachment 5
Example Landfill Record Keeping Form

[illegible]

Attachment 6
EAF Dust Monofill Design

Attachment 7 Training and Safety Plan

Landfill Training and Safety Plan

Site Operator Training

Nucor will assign either a contractor or a Nucor employee or employee(s) to operate the landfill in accordance with permit requirements. The operator will be provided a copy of the landfill application and any updates that were used for permitting purposes with the Utah Division of Environmental Quality. The information contained in the application, and any additional specifications or requirements contained in a permit issued by the state will be used to specify the operating procedures for the landfill to satisfy environmental requirements. In addition, the landfill will be routinely inspected by Nucor employees responsible for maintaining plant wide compliance with environmental regulations and guidance will be provided to the operator as needed.

The entire Nucor facility is covered by the Occupational Safety and Health Administration. The landfill will be operated in compliance with these regulations to satisfy both safety training and operating safety requirements.

Nucor Employee and Contractor Training

Each Nucor employee receives environmental and safety training upon hire. Waste handling procedures, including the types of materials that are acceptable to be placed in the landfill are included in this initial employee training. In addition, at least annually, Nucor employees will receive a review of waste handling procedures at the facility. Department managers receive periodic guidance on landfill use that is passed on to individual employees as necessary.

Employees of on site contractors receive both environmental and safety training as necessary from the contractor. Additional environmental training is provided to users of the landfill by the landfill site operator on an ongoing basis as described in the landfill application and permit.

Attachment 8

Seed Mixture, Application, and Cost Information



1697 West 2100 North
Lehi, UT 84043

FAX

Phone: (801) 768-4422
Fax: (801) 768-3967

Date: November 29, 1999

To: Doug Jones

Company: Newcourse Steel Co.

From: Bill Agnew

Pages (Including Cover): 1

Re: Seed Mixture for Landfill Reclamation

Doug:

As requested, please find a native seed mixture for Newcourse Steel's Landfill Reclamation project. It is anticipated that 35 acres will be reclaimed with seed needed immediately. An appropriate seeding rate would be 20 pls #'s/acre. The following is offered:

<u>Species</u>	<u>Seeding Rate</u> <u>(pls #'s/acre)</u>
Western wheatgrass (<i>Agropyron smithii</i>)	4.0
Bluebunch wheatgrass (<i>Agropyron spicatum</i>)	4.0
Slender wheatgrass (<i>Agropyron trachucaulum</i>)	4.0
Sheep fescue (<i>Festuca ovina</i>)	2.0
Bottlebrush squirreltail (<i>Sitanion hystrix</i>)	1.0
Big bluegrass (<i>Poa ampla</i>)	1.0
Lewis blue flax (<i>Linum lewisii</i>)	1.5
Western yarrow (<i>Achillea milifolium</i>)	.5
Antelope bitterbrush (<i>Purshia tridentata</i>)	1.0
Rubber rabbitbrush (<i>Chrysothamnus nauseosus</i>)	.5
Basin bigsage (<i>Artemesia tridentata</i>)	.5
	20.0

Seed cost/acre - \$ 169.00

Doug, if you have questions, please let me know. Granite Seed looks forward to providing this mixture at your convenience.

Best regards,
Bill Agnew

Attachment 9
Cost Estimate for Closure and Post-Closure Care

Nucor Steel - Plymo.
Updated Year 2003 Financial Assurance

Landfill Closure and Reclamation Cost Estimate for EAF Dust Monofill Permit Modification

Activity	Equipment or Method	Reference	Cost	Units	Nucor Variable 1	Variable 1 Units	Nucor Variable 2	Variable 2 Units	Total Cost year 2003 Basis	Comment
Final Cover and Regrade of Landfill Cell, 1875 yds/cell, 10 cells maximum	Dozer	Means 02315-120-4040	0.78	\$/CY	18750	CY			\$14,825.00	RSMeans' 2003 Site Work and Landscape Cost Data
Final cover and regrade EAF dust monofill. 6.9 acres @ 2 feet = 22,300 cy	Dozer	Means 02315-120-4040	0.78	\$/CY	22300	CY			\$17,394.00	RSMeans' 2003 Site Work and Landscape Cost Data
Ripping of Landfill Access Road for Seeding Preparation - Maximum Length (1200'), 20' Wide, 6" Deep	Dozer with Ripper	Means 02315-800-2200	1.79	\$/CY	444	CY			\$794.78	RSMeans' 2003 Site Work and Landscape Cost Data
Seeding Re-graded Cells - Labor	Hand Spread	Estimate	26.92	\$/hr	8	hours/acre	35	acre	\$7,538.23	Cost revised from year 2000 approved calculations by using a 2.5% escalation factor
Tracking Seeded Area	Dozer	Means 01590-200-4280	880.80	\$/day	8	acre/day	35	acre	\$3,863.50	RSMeans 2003 Site Work and Landscape Cost Data
Seed Cost		Vendor Quote	181.99	\$/acre	20	lb/acre	35	acres	\$8,369.81	Cost revised from vendor quote and year 2000 calculations by using a 2.5% escalation factor
Total Cost									\$50,575.30	

Post Closure Care

Activity	Frequency	Reference	Cost (year 2000 approved baseline estimates)	Year 2003 Revised Baseline Cost	Units	Nucor Variable 1	Variable 1 Units	Nucor Variable 2	Variable 2 Units	Escalation Factor (%/year)	# of years to escalate	Total Cost Year 2001 Basis	Comment	
Inspections (includes travel time, on-site visual survey of the landfill area, and report)	Quarterly Year 1	Estimate	500.00	538.45	\$/inspection	4	Inspections				2.5	0	\$2,163.78	
	Annual End of Year 2	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	2	\$995.70	
	Annual End of Year 3	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	3	\$579.86	
	Annual End of Year 4	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	4	\$594.34	
	Annual End of Year 5	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	5	\$598.20	
	Annual End of Year 6	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	6	\$602.06	
	Bi-annual End of Year 7	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	7	\$605.92	
	Bi-annual End of Year 8	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	8	\$609.78	
	Final - End of Year 15	Estimate	500.00	538.45	\$/inspection	1	Inspections				2.5	15	\$779.83	
Repair erosion or settlement damage, redirect run-on or run-off	Dozer	Means 02315-120-4040	0.71	0.78	\$/CY	3000	CY				2.5	15	\$3,389.02	RSMeans' 2003 Site Work and Landscape Cost Data
Seeding Re-graded Cells - Labor	Hand Spread 1 acre max	Estimate	25.00	26.92	\$/hr	8	hours/acre	1	Acre		2.5	15	\$311.93	Cost revised from year 2000 approved calculations and escalating 3 years for present day cost
Tracking Seeded Area	Dozer	Means 01590-200-4280	880.80	880.80	\$/day	8	acre/day	1	Acre		2.5	15	\$159.46	RSMeans' 2003 Site Work and Landscape Cost Data
Seed Cost		Vendor Quote	189.00	181.99	\$/acre	20	lb/acre	1	Acre		2.5	15	\$422.50	RSMeans' 2003 Site Work and Landscape Cost Data
Total Cost													\$5,082.74	

Total Reclamation and Post Closure Care Cost Subject To Financial Assurance

\$50,575.30

+

\$5,082.74

=

\$55,658.04

Notes:

1. Updated costs in March 2003 for EAF dust monofill permit modification. New information in bold and italics.

Attachment 10

Financial Assurance

Following is proof of financial assurance for the landfill as approved and constructed to date. The mechanism for financial assurance for the modification of the landfill will not change, however, the amount will be increased to the amount now calculated. The financial assurance will be increased once a permit has been issued and a permit number assigned, but prior to construction of the expanded landfill.

Maryann Isenberg

Marsh USA Inc.
100 N. Tryon Street
Suite 3200
704 343 4768 Fax: 704 343 4704
mary.a.isenberg@marshmc.com

ATTN: Mary

MARSH

June 11, 2002

Mr. Doug Steel
Environmental Manager
Nucor Steel
West Cemetery Road
Plymouth, Utah 84330

Feb #
57252

**Subject: Renewal of Solid Waste Permitting and Management Closure and Post Closure
Surety Bond to State of Utah
Travelers Casualty and Surety, Bond No. 103 314 278**

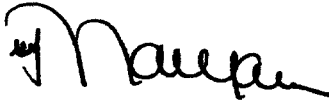
Dear Doug:

Enclosed please find our invoice representing the renewal premium in the amount of \$800 on the above captioned bond for the period July 11, 2002 – 2003.

Remittance under this invoice is due upon receipt and should be forwarded to **Marsh USA Inc.,
Post Office Box 100536, Atlanta, Georgia 30384-0536.**

Thank you for continuing this business with us. After reviewing, should you have any questions or need anything additional from us, please feel free to call.

Best regards,



Maryann Isenberg
Bond Account Representative
Surety Department

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An **MMC** Company

MARSH

An **MMC** Company

Marsh USA Inc.
Charlotte, NC - 225
704-343-4700

new line
3350-3

MAI

Invoice No.
267119

Invoice

Date: 6/10/02

Ms Rae Eagle
Mgr of External Reporting
Nucor Corporation
2100 Rexford Road
Charlotte, NC 28211

Effective Date	Expiration Date	Client No.
7/11/02	7/11/03	056115

Policyholder: NUCOR CORP

ORIGINAL INVOICE

ORIGINAL

Effective: 7/11/02

Insurer	Policy No.	Type of Coverage / Item	Amount
TRAVELERS CAS	25 S 103 314 278	MISC SURETY PREMIUM	800.00
		INVOICE TOTAL:	800.00
		REMIT IN: UNITED STATES DOLLARS	
		RENEWAL OF SOLID WASTE PERMITTING AND MANAGEMENT CLOSURE AND POST CLOSURE CARE BOND	
		OBLIGEE: STATE OF UTAH	
		PENALTY: \$40,000	

RETURN ATTACHED COPY
WITH REMITTANCE TO:

Marsh USA Inc.
P.O. BOX 100536
Atlanta, GA 30384-0536

Invoice Is Payable In Full Upon Receipt

Marsh USA and its affiliated companies ("Marsh") may have agreements with insurers providing the coverage which is the subject of this invoice pursuant to which Marsh may derive a commission contingent upon such factors as the size, growth and/or overall profitability of an entire book of business placed by Marsh with such insurers. Such contingent commission would be in addition to any other compensation Marsh may receive such as retail, excess and surplus lines and wholesale brokerage fees or commissions, administrative fees, etc. At your request, Marsh will provide additional information.

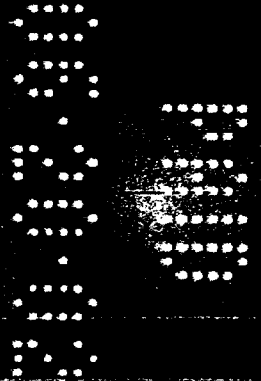
NUCOR

Post Office Box 70

Plymouth, Utah 84330

No. **U 025741**

WARNING: THIS DOCUMENT CONTAINS THE FOLLOWING SECURITY FEATURES: DotyCrack Security Paper and Bleed-Through Ink Feature.



PO25741P 6061113279C 12 505 542P

**Solid Waste Permitting and Management
Closure and Post-Closure Care Bond
Utah Administrative Code R315-309-3(4)**

Bond Amount \$40,000.00

Bond No. 25 S 103 314 278

KNOW ALL MEN BY THESE PRESENTS:

That we, **Nucor Steel, a Division of Nucor Corporation** (Principal) of the County of **Box Elder**, State of **Utah**, as principal and **Travelers Casualty and Surety Company of America** (Surety) as a corporation, duly organized and doing business under and by virtue of the laws of the State of **Connecticut** and authorized to do business in the State of Utah, and duly licensed for the purpose of making, guaranteeing, and becoming sole surety upon bonds required or authorized by the laws of the State of Utah, as surety, and held and firmly bound unto the State of Utah, Solid and Hazardous Waste Control Board, 288 North 1460 West, Salt Lake City, Utah 84114-4880, to perform closure and post-closure activities as required in permit #0001 to a maximum sum of **Forty Thousand and No/100 Dollars (\$40,000.00)**, lawful money of the United States of America we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The Condition of the foregoing obligation is such that,

WHEREAS, the above named Principal has made application to the State of Utah, Solid and Hazardous Waste Control board for the issuance of a permit to operate a Class IIb Landfill under the authority of the State of Utah Solid and Hazardous Waste Act, and

WHEREAS, the Utah Solid and Hazardous Waste Control Board, with authority, has enacted rules, Utah Administrative Code (UAC) R315-301 through 320, regulating the operation of landfills,

WHEREAS, under the terms of said rules a cash or corporate surety bond in the sum of **Forty Thousand and No/100 Dollars (\$40,000.00)** is required of said Principal and a responsible surety as financial assurance for closure and post-closure care costs of said landfill. Said bond is conditioned upon the faithful and proper compliance with all of the terms, conditions, provisions, requirements, and specifications of landfill closure and post-closure care contained in said landfill permit, UAC R315-302-2, and UAC R315-305-5(5), not to exceed the bond penalty amount hereof,

Now, therefore, if the above bound principal shall fully comply with the above stated provisions for closure and post-closure care of said Class IIIb Landfill, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond may be increased by rider or other means as necessary to equal the amount as established by the annual up-date of the cost estimate for closure and post-closure care as required by UAC R315-309-2(3) and (4) for said Class IIIb Landfill.

The duration of this bond shall from the time same is filed with the State of Utah until such time as the State of Utah may cancel the same or release the Surety from all liability.

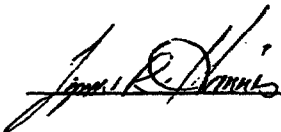
The Surety may cancel this bond by giving the State of Utah 120 days written notice addressed to the State of Utah, Solid and Hazardous Waste Control Board. Upon cancellation of this bond, the State of Utah shall release the Surety from all liability.

In the event of default by the Principal of any of the prior stated provisions and conditions of closure and the post-closure care of said Class IIIb Landfill, the Surety shall conduct or cause to be conducted the closure and post-closure activities as required in permit #0001. Upon the completion of the required activities, not be exceed the penal amount of this bond, this obligation of the Surety shall terminate.

Signed and Sealed this 11th day of July, 2000.

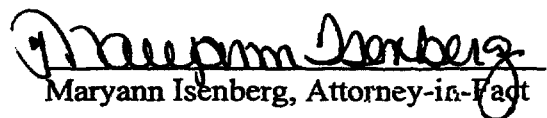
Witness:

NUCOR STEEL, A DIVISION OF
NUCOR CORPORATION


_____

Witness:

TRAVELERS CASUALTY AND
SURETY COMPANY OF AMERICA


Ramona Mowrey
Maryann Isenberg, Attorney-in-Fact

WITNESS WHEREOF, TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, TRAVELERS CASUALTY AND SURETY COMPANY, FARMINGTON CASUALTY COMPANY and TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS have caused this instrument to be signed by their Senior Vice President, and their corporate seals to be hereto affixed this 12th day of January, 2000.

STATE OF CONNECTICUT

) SS. Hartford

COUNTY OF HARTFORD

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
TRAVELERS CASUALTY AND SURETY COMPANY
FARMINGTON CASUALTY COMPANY
TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS



By

George W. Thompson
George W. Thompson
Senior Vice President

On this 12th day of January, 2000 before me personally came GEORGE W. THOMPSON to me known, who, being by me duly sworn, did depose and say: that he/she is Senior Vice President of TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, TRAVELERS CASUALTY AND SURETY COMPANY, FARMINGTON CASUALTY COMPANY and TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS, the corporations described in and which executed the above instrument; that he/she knows the seals of said corporations; that the seals affixed to the said instrument are such corporate seals; and that he/she executed the said instrument on behalf of the corporations by authority of his/her office under the Standing Resolutions thereof.



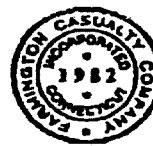
Marie C. Tetreault

My commission expires June 30, 2001 Notary Public
Marie C. Tetreault

CERTIFICATE

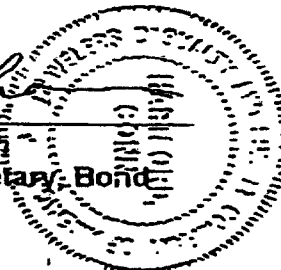
I, the undersigned, Assistant Secretary of TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, TRAVELERS CASUALTY AND SURETY COMPANY and FARMINGTON CASUALTY COMPANY, stock corporations of the State of Connecticut, and TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS, stock corporation of the State of Illinois, DO HEREBY CERTIFY that the foregoing and attached Power of Attorney and Certificate of Authority remains in full force and has not been revoked; and furthermore, that the Standing Resolutions of the Boards of Directors, as set forth in the Certificate of Authority, are now in force.

Signed and Sealed at the Home Office of the Company, in the City of Hartford, State of Connecticut. Dated this 22 day of February, 2001



By

Kimi M. Johanson
Kimi M. Johanson
Assistant Secretary, Bond



TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
TRAVELERS CASUALTY AND SURETY COMPANY
FARMINGTON CASUALTY COMPANY
Hartford, Connecticut 06183-9062
TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS
Naperville, Illinois 60563-8458

POWER OF ATTORNEY AND CERTIFICATE OF AUTHORITY OF ATTORNEY(S)-IN-FACT

KNOW ALL PERSONS BY THESE PRESENTS, THAT TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, TRAVELERS CASUALTY AND SURETY COMPANY and FARMINGTON CASUALTY COMPANY, corporations duly organized under the laws of the State of Connecticut, and having their principal offices in the City of Hartford, County of Hartford, State of Connecticut, and TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS, a corporation duly organized under the laws of the State of Illinois, and having its principal office in the City of Naperville, County of DuPage, State of Illinois, (hereinafter the "Companies") hath made, constituted and appointed, and do by these presents make, constitute and appoint: H. Wayne Gibson, Maryann Isenberg, Vickie L. Petrea, Martin Pallazza, Gary A. Vail, Judie Chisolm or Ramona Mowrey * *

of Charlotte, NC, their true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred to sign, execute and acknowledge, at any place within the United States, or, if the following line be filled in, within the area there designated the following instrument(s):

by his/her sole signature and act, any and all bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking and any and all consents incident thereto

and to bind the Companies, thereby as fully and to the same extent as if the same were signed by the duly authorized officers of the Companies, and all the acts of said Attorney(s)-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This appointment is made under and by authority of the following Standing Resolutions of said Companies, which Resolutions are now in full force and effect:

NOTED: That the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her.

VOTED: That the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary.

VOTED: That any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary, or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority.

This Power of Attorney and Certificate of Authority is signed and sealed by facsimile under and by authority of the following Standing Resolution voted by the Boards of Directors of TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, TRAVELERS CASUALTY AND SURETY COMPANY, FARMINGTON CASUALTY COMPANY and TRAVELERS CASUALTY AND SURETY COMPANY OF ILLINOIS, which Resolution is now in full force and effect:

VOTED: That the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

Maryann Isenberg

Marsh USA Inc.
100 N. Tryon Street
Suite 3200
Charlotte, NC 28202
704 343 4768 800 662 1284 Fax: 704 343 4704
Mary.A.Isenberg@Marsh.com

MARSH

February 22, 2001

State of Utah
Solid and Hazardous Waste Control Board
288 North 1460 West
Salt Lake City, Utah 84114-4880

**Subject: Insured: Nucor Steel, a Division of Nucor Corporation
Solid Waste Permitting and Management Closure and Post-Closure Care Bond
Travelers Casualty and Surety Company #25 S 103 314 278**

Gentlemen:

Please accept this letter as your notification that the captioned bond on behalf of Nucor Steel, a Division of Nucor Corporation, issued effective July 11, 2000 in the amount of \$40,000 is in full force and effect and it is the Surety Carrier's intent to keep this bond in effect.

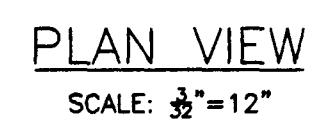
Should you have any questions or need anything additional from us, please feel free to contact us directly at (704) 343-4768 or (800) 662-1284.

Best Regards,
TRAVELERS CASUALTY AND SURETY
COMPANY OF AMERICA

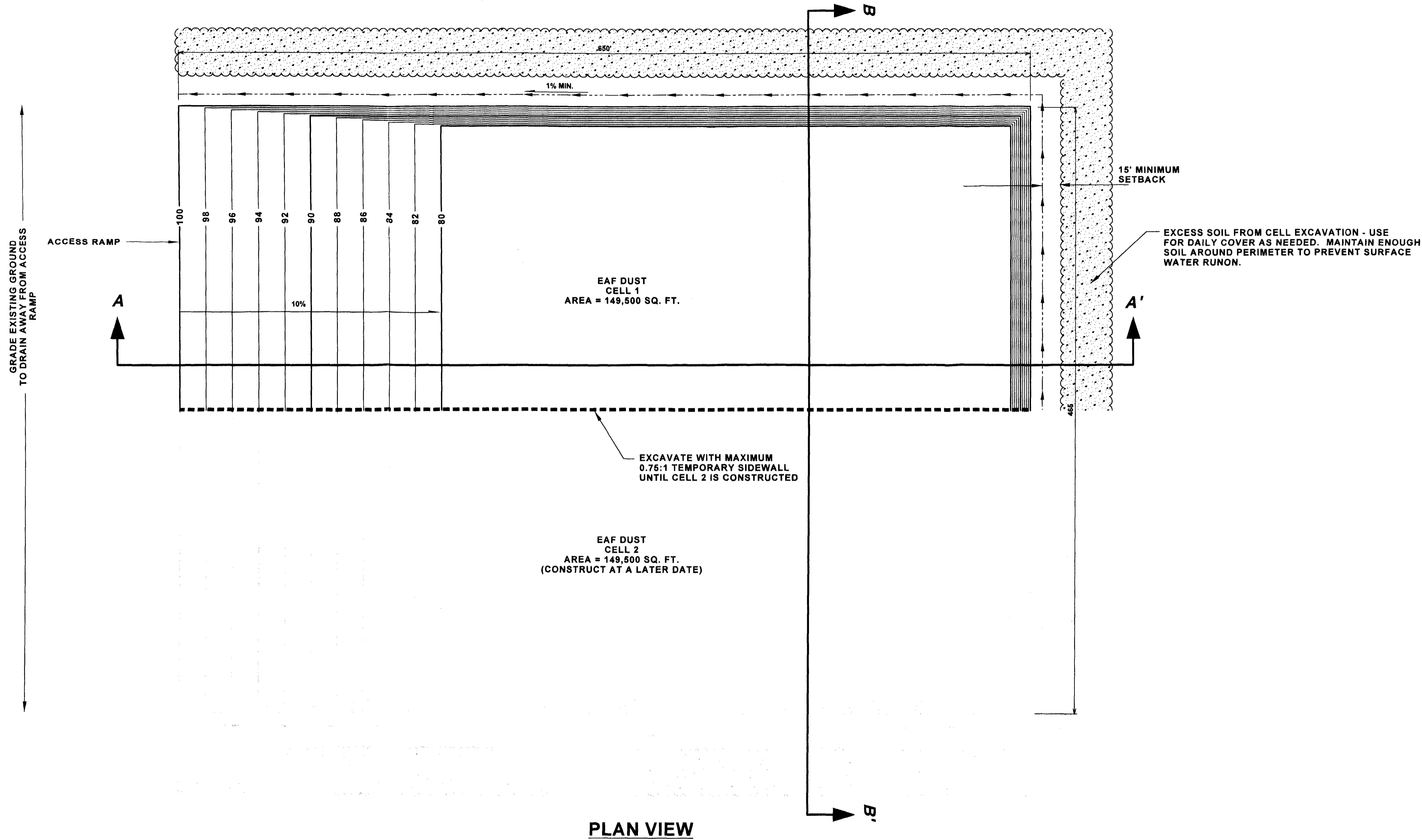

Maryann Isenberg
Attorney-in-Fact

**Solid Waste Permitting and Management
Closure and Post-Closure Care Bond
Utah Administrative Code R315-200-260**

Attachment 11
Modified Landfill Cell and Closure Design for Existing
Permitted Landfill



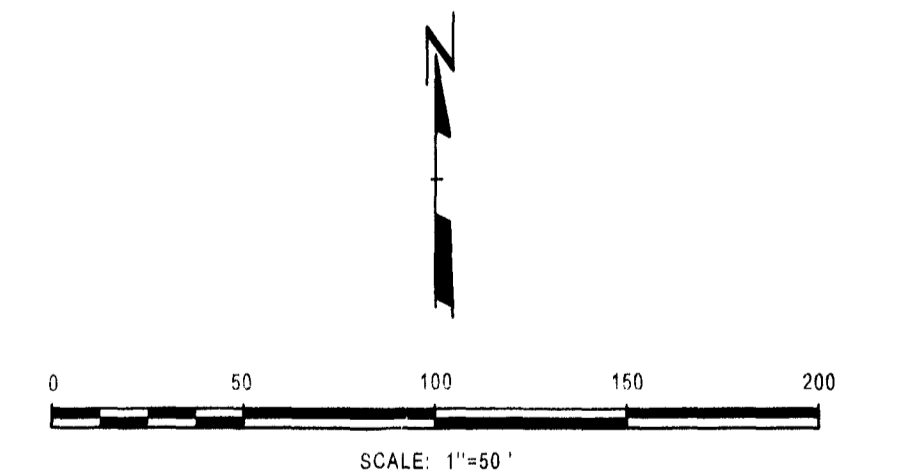
GENERAL TOLERANCES		REFERENCE DWG. NO.				PLYMOUTH, UTAH	
UNLESS OTHERWISE SPECIFIED						GENERAL - LANDFILL SECTIONS, DETAILS & LAYOUTS	
TOLERANCES ON MACHINE DIMENSIONS						SCALE: 1:96 (1/8"=12") DATE: 11-8-99	
FRACTIONAL	± 1/64"					DRAWN: R. SCOTT ASS'Y. DWG.:	
DECIMAL	± .005"					TRACED: SUPERSEDED:	
METRIC	± .12mm	NO. DATE		NOTES		CHK'D.: SUPERSEDED BY:	
						APP'D.: D. JONES MAT'L DIRT & REFUSE	
TOLERANCES ON FABRICATION DIMENSIONS						FILE NO. G2093A DWG. G2093A REV.	
HOLE LOCATION	± 1/32"	NOTICE - THIS DRAWING IS FURNISHED SUBJECT TO THE CONDITIONS THAT IT SHALL NOT BE COPIED OR DISCLOSED TO OUTSIDE PARTIES WITHOUT WRITTEN CONSENT OR USED IN ANY WAY DETRIMENTAL TO NUCOR. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. NUCOR CORPORATION					
GENERAL FABRICATION	± 1/16"						



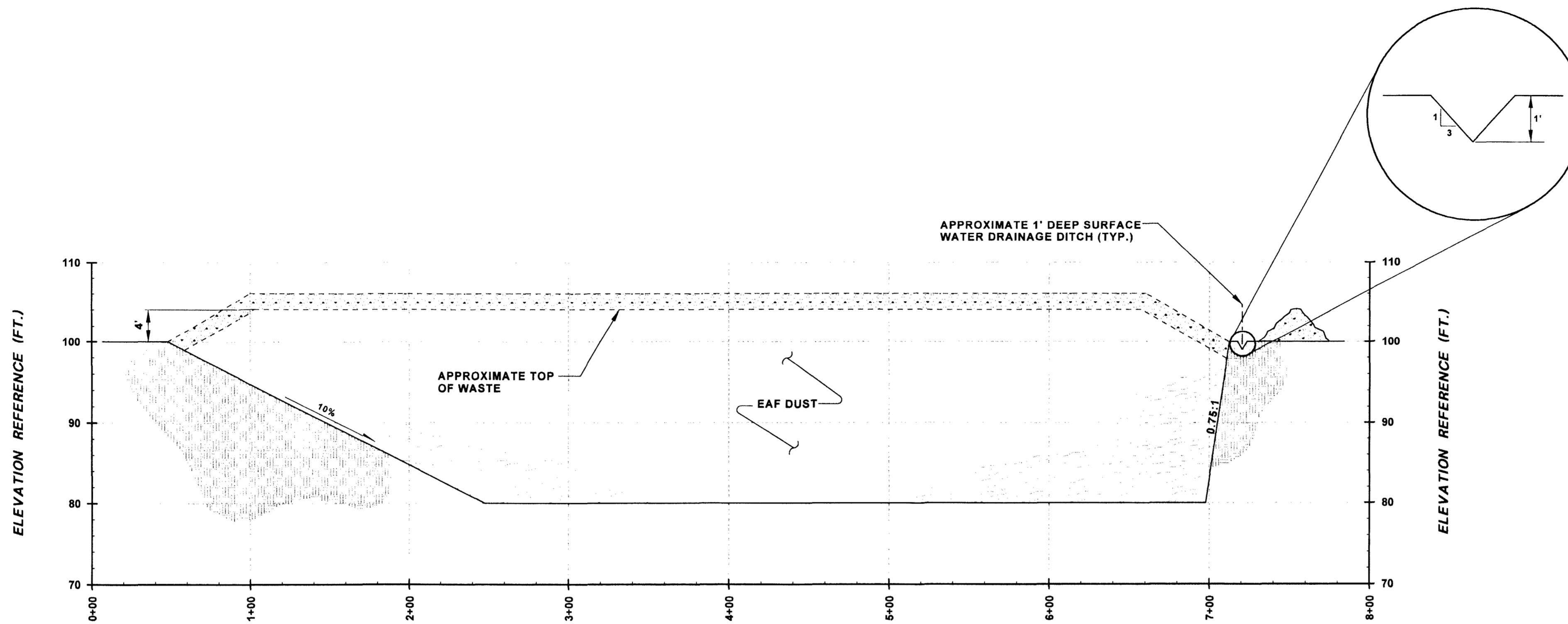
LEGEND

100	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	NATIVE SOIL
	EA F DUST
	EXCAVATED SOIL

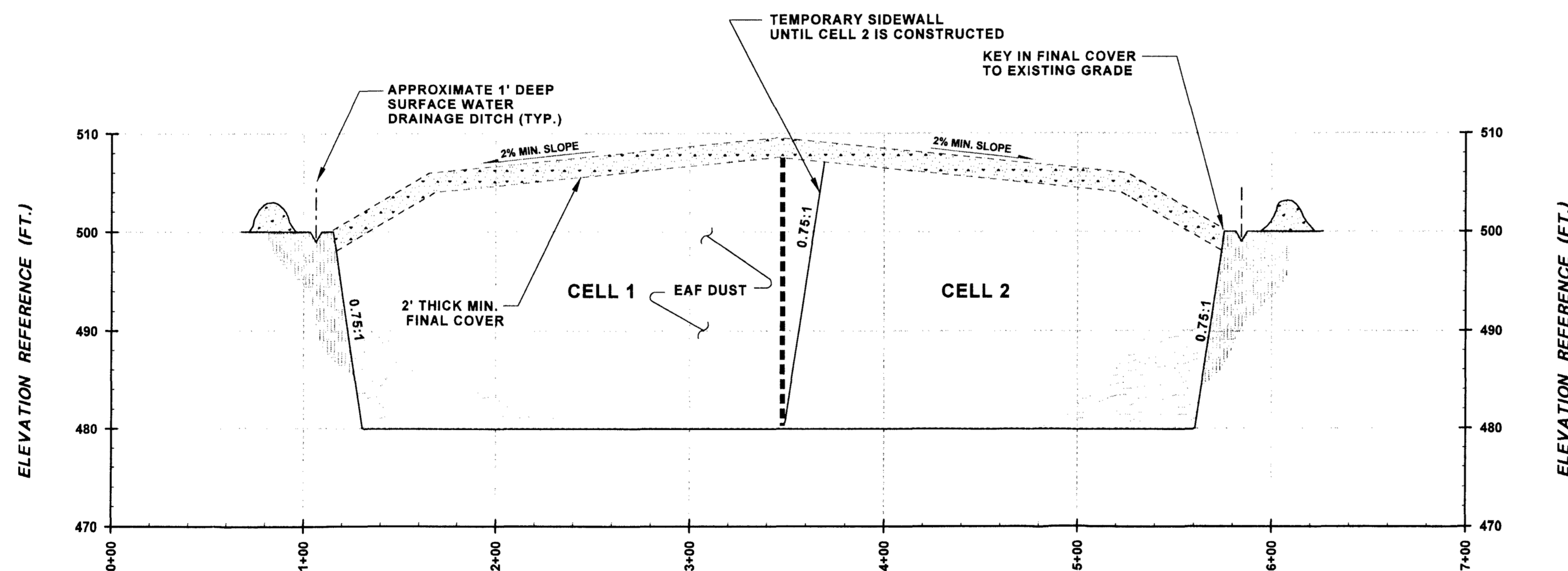
- NOTES
- ELEVATIONS SHOWN ARE FOR REFERENCE ONLY. ACTUAL ELEVATIONS WILL BE TIED TO A SITE SPECIFIC DATUM.
 - CELL 1 CONSTRUCTED FIRST.



3.				
2.				
1.				
NO.	BY	DATE	REVISION	APP'D.
PROJECT: NUCOR STEEL A DIVISION OF NUCOR CORPORATION PLYMOUTH, UTAH				
SHEET TITLE: CLASS IIIb LANDFILL PERMIT MODIFICATION EA F DUST LANDFILL				
DRAWN BY: stormell		SCALE: 1"=50'	PROJ. NO. 6122.01	
CHECKED BY: JFC			FILE NO. BASEG.PLT	
APPROVED BY: JFC		DATE PRINTED: MAR 12 2003	FIGURE 1	
DATE: MARCH 2003				
RMT INC.		744 Heartland Trail Madison, WI 53717-1934 P.O. Box 8923 53708-8923 Phone: 608-831-4444 Fax: 608-831-3334		



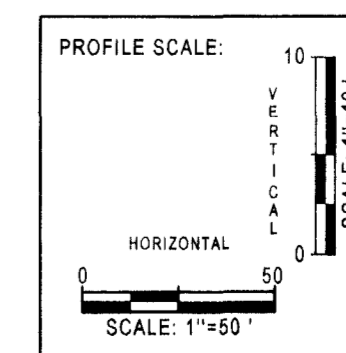
SECTION A - A'



SECTION B - B'

LEGEND	
	PROPOSED FINAL COVER GRADE
	PROPOSED BASE GRADE
	NATIVE SOIL
	EAF DUST
	EXCAVATED SOIL

- NOTES
- ELEVATIONS SHOWN ARE FOR REFERENCE ONLY. ACTUAL ELEVATIONS WILL BE TIED TO A SITE SPECIFIC DATUM.
 - CONSTRUCT CELL 1 IN FIRST CONSTRUCTION SEASON.



3.				
2.				
1.				
NO.	BY	DATE	REVISION	APP'D.
PROJECT: NUCOR STEEL A DIVISION OF NUCOR CORPORATION PLYMOUTH, UTAH				
SHEET TITLE: CLASS IIIb LANDFILL PERMIT MODIFICATION EAF DUST LANDFILL ENGINEERING CROSS SECTIONS				
DRAWN BY: stormer	SCALE: AS SHOWN	PROJ. NO. 6122.01		
CHECKED BY: JKL		FILE NO. XSECTIONS.PLT		
APPROVED BY: JKL	DATE PRINTED: MAR 12 2003	FIGURE 2		
DATE: MARCH 2003				
744 Heartland Trail Madison, WI 53717-1934 P.O. Box 8923 53708-8923 Phone: 608-831-4444 Fax: 608-831-3334				